TA-H6800N

SERVICE MANUAL



Canadian Model AEP Model UK Model E Model Australian Model Tourist Model

This set is the Power Amplifier section in FH-E9X, MHC-6800.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (CND model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

For front speaker:

With 6 ohm loads both channels driven, from 40-20,000 Hz; rated 70 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

For rear speaker:

With 16 ohm loads both channels driven, from 100-20,000 Hz; rated 10 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output. (CND model)

Continuous RMS power output

FRONT: 70+70 watts

(6 ohms, at 40 Hz-20 kHz, 1% THD)

REAR: 10+10 watts

(16 ohms, at 100 Hz-20 kHz, 1% THD) FRONT: 80+80 watts

(6 ohms, at 1 kHz, 5% THD)

REAR: 12+12 watts

(16 ohms, at 1 kHz, 5% THD)

(AEP, UK, G, IT model)

Continuous RMS power output

FRONT: 70 + 70 watts

(6 ohms, at 1 kHz, DIN) REAR: 10 + 10 watts

(16 ohms, at 1 kHz, DIN)

FRONT: 80 + 80 watts

(6 ohms, at 1 kHz, 5% THD)

REAR: 12 + 12 watts

(16 ohms, at 1 kHz. 5% THD)

Music power output FRONT: 185 + 185 watts

(6 ohms, at 1 kHz, 10% THD)

REAR: 15 + 15 watts

(16 ohms, at 1 kHz, 10% THD)

(AUS model)

Continuous RMS power output

FRONT: 80 + 80 watts

(6 ohms, at 1 kHz. 5% THD)

REAR: 12 + 12 watts (8 ohms, at 1 kHz, 5% THD)

Peak music power output

1,000 watts (4 speakers

driven) (E, EA, JE, MY, SP model)

Continuous RMS power output

FRONT: 80 + 80 watts (6 ohms, at 1 kHz. 5% THD)

REAR: 12 + 12 watts

(16 ohms, at 1 kHz, 5%

THD)

Peak music power output

FRONT: 80 + 80 watts (6 ohms, at 1 kHz, 5% THD)

REAR: 12 + 12 watts

(16 ohms, at 1 kHz, 5% THD)

Outputs

MIX MIC (minijack):

(CND model)

sensitivity 1 mV,

impedance 10 kilohms

(EXCEPT CND model)

sensitivity 1 mV,

impedance 600 ohms

HEADPHONES

(stereo minijack):

accepts headphones of

8 ohms or more

FRONT SPEAKER:

(CND model)

accepts speakers of 6 to 16 ohms

(EXCEPT CND model)

accepts speakers of 8 to 16 ohms

REAR SPEAKER (phono jack):

(CND, AEP, UK, G, IT model)

accepts speakers of 16 ohms

(E, AUS, EA, JE, MY, SP model)

accepts speakers of 8 to 16 ohms

Design and specifications subject to change without notice.

· CND: Canadian model

· EA : Saudi Arabia model • JE : Tourist model

• G : German model

· MY : Malaysia model

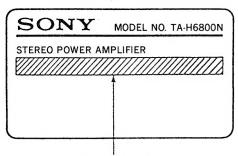
• IT : Italian model · AUS: Australian model

· SP : Singapore model

STEREO POWER AMPLIFIER SONY

MODEL IDENTIFICATION

-Model Number Label-



CND model : AC: 120V-60Hz

: AC: 220-230V~50/60Hz 150W AEP model

: AC: 240V~50Hz UK model

G, IT model : AC: 220-230V~50Hz 150W

E, AUS, EA, JE, MY, SP model

: AC: 110-120/220-240V~50/60Hz 175W

· CND: Canadian model • G : German model • IT : Italian model · AUS: Australian model · EA : Saudi Arabia model · JE : Tourist model · MY : Malaysia model • SP : Singapore model

NOTE FOR REPAIRING

Usually, the power supply is controlled by the pre amplifier TA-H6800E. However, when repairing this set individually, connect power supply jig for Liberty or FH to CNJ101.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ! OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

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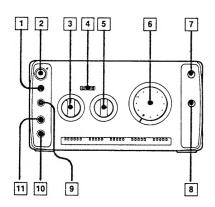
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION

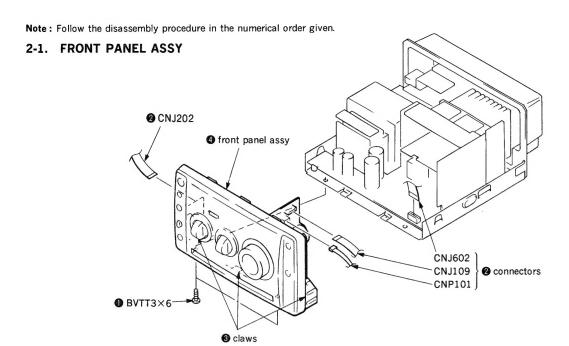


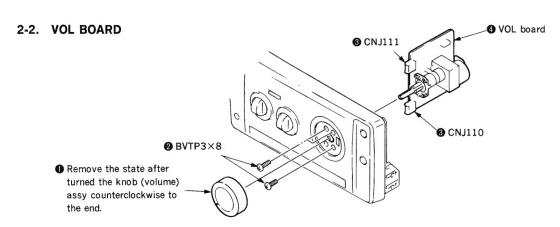
- 1 Remote control sensor
- 2 SYSTEM POWER switch and ON/STANDBY indicator

The indicator remains lit as long as the AC power cord is connected to a wall outlet.

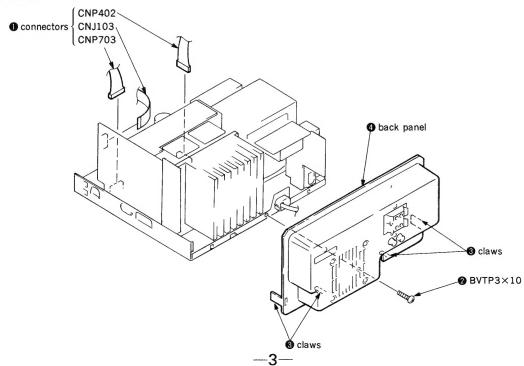
- 3 FREQUENCY control (36)
- 4 DYNAMIC BASS SYSTEM button (36)
- 5 LEVEL (Bass level) control (36)
- 6 VOLUME control (36, 130)
- 7 MUTING button and indicator (36)
- 8 REAR SPEAKERS button and indicator
- 9 HEADPHONES jack (stereo minijack) (36)
- MIX MIC (microphone) input jack (minijack) (146)
- 11 MIC (microphone) LEVEL control (146)

SECTION 2 DISASSEMBLY

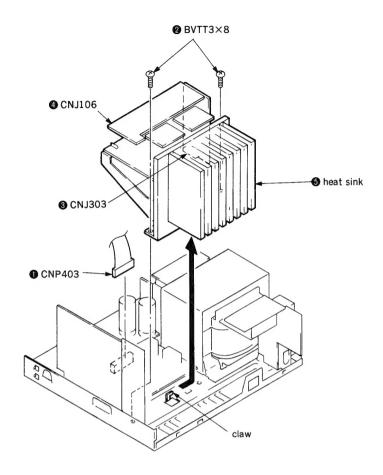




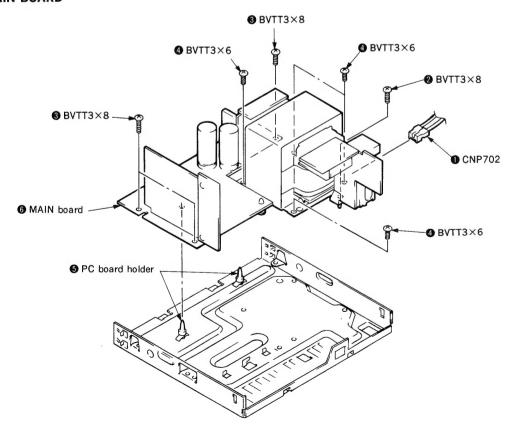
2-3. BACK PANEL



2-4. HEAT SINK

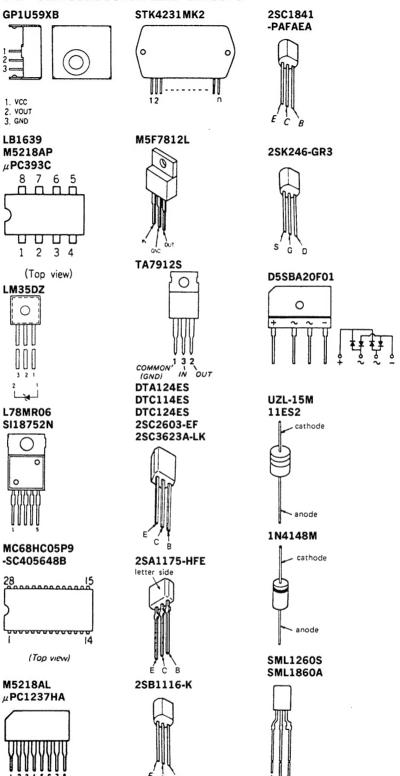


2-5. MAIN BOARD

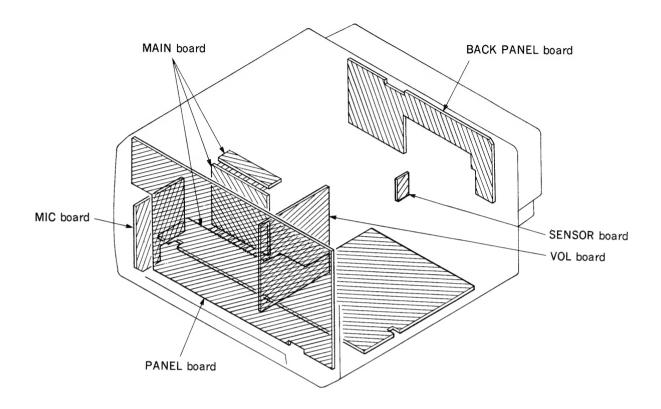


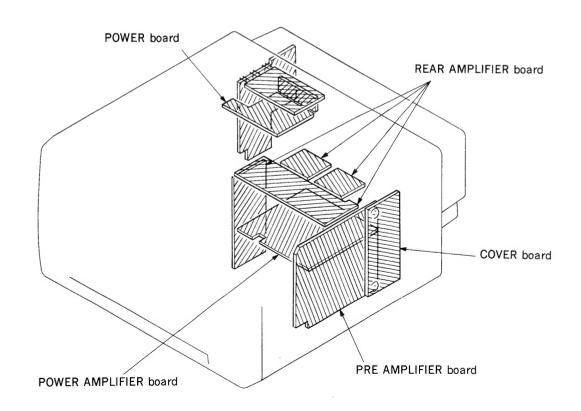
SECTION 3 DIAGRAMS

3-1. SEMICONDUCTOR LEAD LAYOUTS



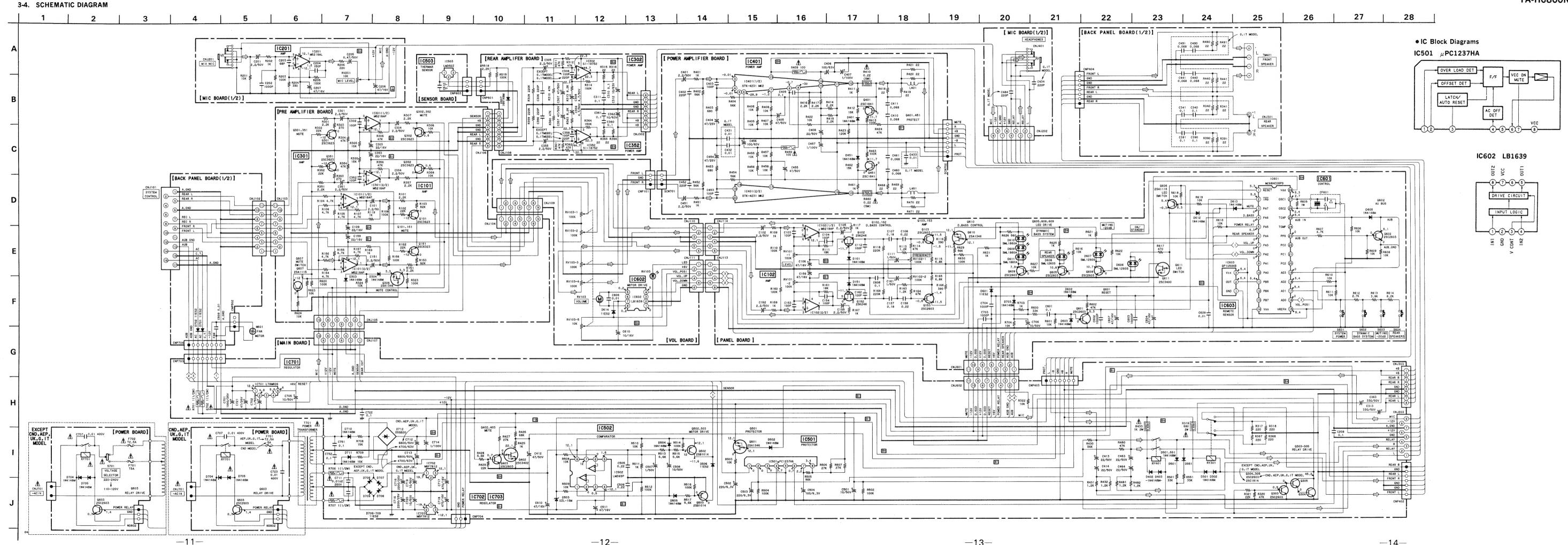
3-2. CIRCUIT BOARDS LOCATION





3-3. PRINTED WIRING BOARDS • Refer to page 5 for Semiconductor Lead Layouts. Semiconductor Location 23 25 26 28 24 Ref. No. | Location | Ref. No. | Location IC201 D-11 CND, AEP, UK, G, IT MODEL D151 D301 G-3 IC301 B-17 IC302 A-12 G-20 D302 IC352 A-13 G-20 D303 IC401 G-15 B-17 D304 D401 D402 B-17 IC501 G-19 EXCEPT CND, AEP, UK, G, IT MODEL F-18 IC502 J-16 IC503 D-13 G-20 D403 D451 D501 D502 IC601 J-5 G-19 CNJIOI SYSTEM CONTROL [REAR AMPLIFIER BOARD] I-13 IC602 J-11 [BACK PANEL BOARD] G-19 IC603 IC701 J-19 H-19 D503 F-18 IC702 1-20 D503 D504 D505 D506 D507 D551 D601 D602 D603 H-18 IC703 J-20 H-18 Q101 H-18 C-14 Q102 G-3 Q103 Q151 G-19 G-2 D-17 1-2 Q152 H-3 L______ Q153 H-2 J-3 D605 Q301 A-17 1-5 D606 D607 D608 Q302 A-18 0303 F-19 J-9 Q304 F-20 1.9 D609 D610 D611 D612 Q305 F-19 1-3 Q306 Q351 1-4 B-18 1-3 A-16 Q352 A-16 D613 Q401 J-15 G-8 D614 Q402 F-18 J-11 D614 D701 D702 D703 D704 (D704) D705 (D705) D706 D707 D708 Q403 Q451 F-18 B-5 [MAIN BOARD] I-13 B-5 G-7 Q501 G-18 Q502 Q503 Q601 H-18 A-22 D-27 H-18 A-22 J-2 Q602 D-27 1-5 Q603 A-25 1-24 1-23 (0603) D-27 Q605 1-23 D709 Q606 1-24 1-2 Q607 Q608 D710 D711 G-24 C-17 Note on Schematic Diagram: G-24 All capacitors are in μF unless otherwise noted. pF: μμF D712 H-22 Q609 1-3 50WV or less are not indicated except for electrolytics Q610 1-4 and tantalums. IC101 C-17 Q611 H-5 • All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise IC102 G-4 specified. △ : internal component. • : nonflammable resistor. (): EXCEPT CND, AEP, UK, G, IT model • fusible resistor. The components identi- Les composants identifiés par fied by mark A or dotted line with mark A pour la sécurité. Note on Printed Wiring Board: • o——: parts extracted from the component side. are critical for safety. Ne les remplacer que par une Pattern on the side which is seen. Replace only with part | pièce portant le numéro spécinumber specified. • G : German model • IT : Italian model Voltage and waveforms are dc with respect to ground under CND: Canadian model no-signal conditions. Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances. Signal path. ⇒ : MIX MIC • G : German model IT : Italian model CND: Canadian model

-14-



-13-

-12-

SECTION 4 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

CND : Canadian modelG : German modelIT : Italian model

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE)... (RED) \uparrow \uparrow

Parts Color Cabinet's Color

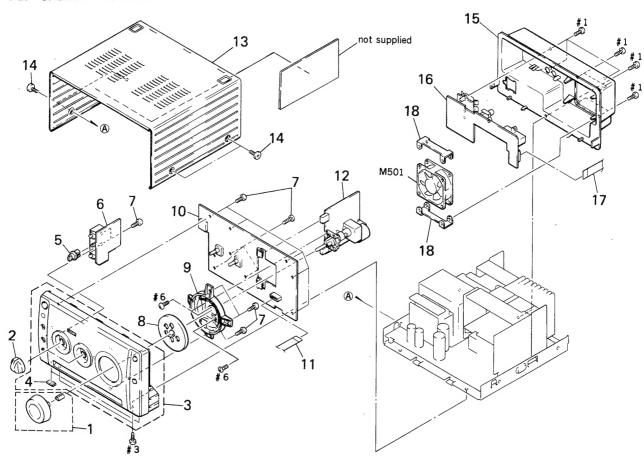
• Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque $\underline{\Lambda}$ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

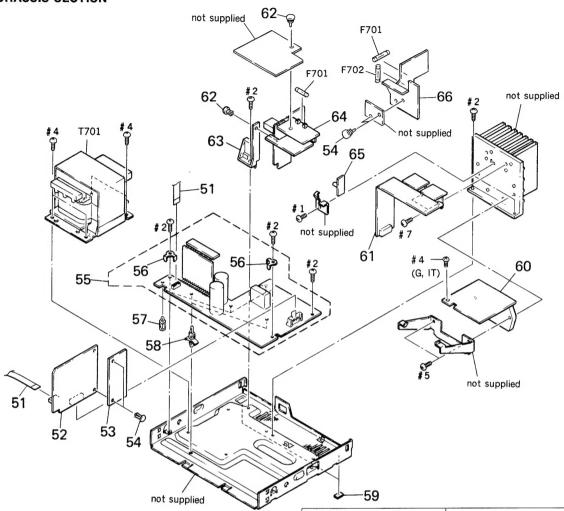
4-1. CABINET SECTION



| Re | f. No. | Part No. | Description | Remark |
|----|--------|--------------|------------------------------------|-------------|
| | 1 | X-4942-892-1 | KNOB (VOLUME) ASSY | |
| | 2 | 4-956-577-02 | KNOB (DBFB) | |
| | 3 | X-4943-415-1 | PANEL ASSY, FRONT (EXCEPT CND, IT) | AEP, UK, G, |
| | 3 | X-4943-416-1 | PANEL ASSY, FRONT (CND, AEP, UK, | G, IT) |
| | 4 | 4-930-336-31 | FOOT (FELT) | |
| | 5 | 4-932-882-21 | KNOB (HP. VOL) | |
| * | 6 | 1-645-247-11 | MIC BOARD | |
| | 7 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| | 8 | X-4942-896-1 | VOLUME ASSY, INDICATOR | |
| * | 9 | 4-954-260-01 | COVER (VOLUME) | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------------------|----------|
| * 10 | A-4360-249-A | PANEL BOARD, COMPLETE | |
| 11 | 1-590-035-11 | WIRE, FLAT TYPE (11 CORE) | |
| * 12 | 1-645-250-11 | VOL BOARD | |
| * 13 | 3-382-491-11 | CASE | |
| 14 | 3-363-099-21 | SCREW (CASE 3 TP2) | |
| * 15 | 4-954-256-11 | PANEL, BACK (EXCEPT CND, AEP, UK | , G, IT) |
| * 15 | 4-954-256-21 | PANEL, BACK (CND, AEP, UK, G, IT) | |
| * 16 | 1-645-248-11 | BACK PANEL BOARD | |
| 17 | 1-590-576-11 | WIRE, FLAT TYPE (11 CORE) | |
| 18 | 4-956-816-01 | BRACKET (FAN 20A) | |
| M501 | 1-541-953-11 | MOTOR, DC FAN | |

4-2. CHASSIS SECTION



mark A or dotted line with mark. $\underline{\Lambda}$ are critical for safety. Replace only with part number specified.

The components identified by Les composants identifiés par une marque Λ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Re | ef. No. | Part No. Descript | ion F | Remark |
|----|---------|-----------------------------------|--|-----------|
| | 51 | 1-590-241-11 WIRE, FL | AT TYPE (9 CORE) | |
| * | 52 | A-4360-250-A PRT AMPL | IFIER BOARD, COMPLETE | |
| * | 53 | 1-645-936-11 COVER BO | ARD | |
| | 54 | 4-812-134-00 RIVET NY | LON, 3.5 | |
| * | 55 | A-4360-253-A MAIN BOA | RD, COMPLETE (CND, AEP, UP | (, G, IT) |
| * | 55 | A-4360-261-A MAIN BOA (EXCEPT | RD, COMPLETE CND, AEP, UK, G, IT) | |
| * | 56 | 4-942-204-01 PLATE, G | ROUND | |
| * | 57 | 3-669-610-00 SPACER | | |
| * | 58 | 4-924-098-11 HOLDER, | PC BOARD | |
| | 59 | 4-930-336-21 FOOT (FE | LT) | |
| * | 60 | A-4360-254-A POWER AM AEP, UK) | PLIFIER BOARD, COMPLETE | (CND, |
| * | 60 | A-4360-259-A POWER AM | PLIFIER BOARD, COMPLETE | (G, IT) |
| * | 60 | | PLIFIER BOARD, COMPLETE CND, AEP, UK, G, IT) | , |

| Ref. No. | Part No. | Description | Remark |
|-----------------|--------------|---|------------|
| * 61 | A-4360-255-A | REAR AMPLIFIER BOARD, COMPLETE UK) | (CND, AEP, |
| * 61 | A-4360-260-A | REAR AMPLIFIER BOARD, COMPLETE | (G, IT) |
| * 61 | A-4360-263-A | REAR AMPLIFIER BOARD, COMPLETE (EXCEPT CND, AEP, UK, G, IT) | |
| 62 | 4-812-134-11 | RIVET NYLON, 3.5 | |
| * 63 | 4-954-242-01 | BRACKET (IN) | |
| * 64 | 1-645-254-11 | POWER BOARD (CND, AEP, UK, G, IT) | |
| * 65 | 1-645-262-11 | SENSOR BOARD | |
| * 66 | 1-647-358-11 | POWER BOARD (EXCEPT CND, AEP, UK, | G, IT) |
| <u></u> 1. F701 | 1-532-299-00 | FUSE (T5A) (EXCEPT CND, AEP, UK, | G, IT) |
| <u></u> 1. F701 | 1-532-286-00 | FUSE (T2. 5A) (AEP, UK, G, IT) | |
| ♠F701 | 1-532-747-11 | FUSE, GLASS TUBE (5A) (CND) | |
| | | FUSE (T2. 5A) (EXCEPT CND, AEP, U | K, G, IT) |
| | | TRANSFORMER, POWER (AEP, G, IT) | |
| <u> </u> | 1-423-546-11 | TRANSFORMER, POWER (EXCEPT CND, G, IT) | AEP, UK, |
| 1701 | 1-423-549-11 | TRANSFORMER, POWER (UK) | |
| /₹T701 | 1-423-699-11 | TRANSFORMER, POWER (CND) | |

SECTION 5 ELECTRICAL PARTS LIST

BACK PANEL

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms.
METAL:Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F:nonflammable

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, $u:\mu$, for example: $uA \dots : \mu A \dots uPA \dots : \mu PA \dots$

uPB..: μ PB.. uPC..: μ PC.. uPD..: μ PD..

• CAPACITORS uF: μF

• COILS number

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque <u>A</u> sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

CND : Canadian modelG : German modelIT : Italian model

| Ref. No. | Part No. | lo. Description Remark | | mark | Ref. No. | Part No. | Description | | | Remark | | | |
|--------------------------|------------------------------|----------------------------------|----------|----------|--------------|----------|--------------|------------------------------|-------------------|--------------|-----------|------------|----------------------|
| * | 1-645-248-11 | BACK PANEL BOA | | | | | R391 | 1-249-397-11 | CARBON (G, IT) | 22 | 5% | 1/4W | F |
| | | ***** | ** | | | | R440 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| | | < CAPACITOR > | | | | | R441 | 1-249-397-11 | (G, IT) CARBON | 22 | 5% | 1/4W | F |
| C340 | 1-136-165-00 | FILM (G, IT) | 0. 1uF | | 5% | 50V | R490 | 1-249-397-11 | (G, IT) CARBON | 22 | 5% | 1/4W | F |
| C341 | 1-136-165-00 | | 0. 1uF | | 5% | 50V | R491 | 1-249-397-11 | (G, IT) | 22 | 5% | 1/4W | F |
| C390 | 1-136-165-00 | FILM | 0. 1uF | | 5% | 50V | 16431 | 1 243 337 11 | (G, IT) | 22 | 0.00 | 1/ 111 | |
| C391 | 1-136-165-00 | | 0. 1uF | | 5% | 50V | | | < TERMINAL 3 | > | | | |
| C440 | 1-136-163-00 | (G, IT) FILM | 0.068 | uF | 5% | 50V | TM401 | 1-537-445-11 | TERMINAL BOA | ARD (SP) | (FRONT S | PERKE | R) |
| | | (G, IT) | | | | | ****** | ***** | ****** | ****** | ***** | **** | **** |
| C441 | 1-136-163-00 | FILM (G, IT) | 0.068 | uF | 5% | 50V | * | A-4360-253-A A-4360-261-A | | | (CND, AE | P, UK, | G, IT |
| C490 | 1-136-163-00 | | 0.068 | uF | 5% | 50V | | 11 4000 201 11 | ***** | (EXCEP | T CND, AE | P, UK, | G, II |
| C491 | 1-136-163-00 | | 0.068 | uF | 5% | 50V | 4. | 4-942-204-01 | | | | | |
| C509 | 1-136-153-00 | | 0. 01u | F | 5% | 50V | * | 4-342-204-01 | FLAIL, GROOM | ND | | | |
| | | < CONNECTOR > | | | | | | | < CAPACITOR | > | | | |
| | | | | | | | C208 | 1-164-159-11 | | 0. 1u | | | 50 |
| | | SOCKET, CONNEC | | | EM CON | TROL) | C313 | 1-124-912-11 | | 330u | | 20% | 50 |
| | | SOCKET, CONNEC | | | | | ł. | 1-124-912-11 | | 330u | | 20% | 50 |
| | | JACK, PIN 2P | | | | | | 1-124-910-11 | | 47uF | | 20% | 50 |
| | | PLUG (MICRO CO PLUG, CONNECTO | |) 7P | | | C413 | 1-124-916-11 | ELECT | 22uF | | 20% | 63 |
| | | | | | | | C414 | 1-124-916-11 | ELECT | 22uF | : | 20% | 63 |
| CNP704 | 1-564-342-51 | PIN, CONNECTOR | 8P | | | | C463 | 1-124-916-11 | ELECT | 22uF | 1 | 20% | 63 |
| | | | | | | | C464 | 1-124-916-11 | | 22uF | | 20% | 63 |
| | | < DIODE > | | | | | C501 | 1-124-907-11 | | 10uF | | 20% | 50 |
| D701 | 0 710 200 02 | DIONE 11ECO | | | | | C502 | 1-126-176-11 | ELECT | 220u | f : | 20% | 10 |
| D701 D702 | 8-719-200-82 8-719-200-82 | | | | | | CEDO | 1 100 170 11 | El EOT | 220 | г . | a no | 1.0 |
| D102 | 0-719-200-62 | DIODE 11632 | | | | | C503 C504 | 1-126-176-11 1-124-443-00 | | 220u 100u | | 20% 20% | 10 10 |
| | | < RESISTOR > | | | | | C504 | 1-136-169-00 | | 0. 22 | | 20% 5% | 50 |
| | | / urgigiou / | | | | | C505 | 1-136-169-00 | | 0. 22 | | 5% | 50 |
| | | | | | | | 0300 | | LILM | 0. 44 | | | |
| R340 | 1-249-397-11 | | 22 | 5% | 1/4W | F | C507 | 1-124-903-11 | ELECT | 1uF | | 20% | ხს |
| | | (G, IT) | | | | | | | | | | | |
| R340 R341 | 1-249-397-11 1-249-397-11 | (G, IT) CARBON | 22 22 | 5% 5% | 1/4W 1/4W | | C508 | 1-124-907-11 | ELECT | 10uF | : | 20% | 50 |
| | | (G, IT) CARBON (G, IT) | | 5% | | F | | | ELECT ELECT | | : | | 50 50 25 25 |

MAIN

| Ref. No. | Part No. | Description | | Re | mark | Ref. No. | Part No. | Descriptio | n | | Re | mark |
|------------------|----------------|---|------------|-------------|------|-----------------------|----------------|-------------|-----------------|-------|------------|-------------|
| C702 | 1-124-463-00 | ELECT | 0. 1uF | 20% | 50V | D710 | 8-719-987-63 | DIODE 1N | 14148M | | _ | |
| C705 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | D711 | 8-719-987-63 | DIODE 1N | 4148M | | | |
| C711 | 1-102-394-11 | CERAMIC | 0.01uF | | 250V | D712 | 8-719-510-68 | DIODE DE | SBA20F01 | | | |
| C712 | 1-126-307-11 | ELECT | 6800uF | 20% | 50V | | | | | | | |
| | | (CND, AEP, UK, G, I | T) | | | | | < IC > | | | | |
| C712 | 1-104-482-11 | | 4700uF | 20% | 63V | | | | | | | |
| | | (EXCEPT CND, AEP | | | | IC501 | 8-759-111-68 | IC uPC12 | 237HA | | | |
| | | (2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,,,, | | | | 8-759-103-93 | | | | | |
| C713 | 1-126-307-11 | FLECT | 6800uF | 20% | 50V | | 8-759-820-13 | | | | | |
| 0110 | 1 120 007 11 | (CND, AEP, UK, G, I | | 20% | 001 | | 8-759-231-58 | | | | | |
| C713 | 1-104-482-11 | | 4700uF | 20% | 63V | | 8-759-245-86 | | | | | |
| 0/13 | .1 104-402-11 | (EXCEPT CND, AEP | | 20% | UJY | 10703 | 0 733 243 00 | 10 14/31 | .20 | | | |
| C714 | 1-124-791-11 | | 1. OuF | 20% | 100V | | | < TRANSIST | ' qn' | | | |
| | | | 2200uF | 20% | 25V | | | / IIIMIOIOI | on / | | | |
| C715 | 1-126-943-11 | | | | 1 | 0000 | 0 700 000 05 | TOANGICTOR | 955555 | D.D. | | |
| C716 | 1-126-943-11 | ELECI | 2200uF | 20% | 25V | Q303 | 8-729-620-05 | | | | ID AED II | V C IT) |
| 0545 | 4 400 000 44 | n. n.m | 470 D | 000 | 4077 | Q304 | 8-729-620-05 | | | | | K, G, 11) |
| C717 | 1-126-935-11 | | 470uF | 20% | 16V | Q304 | 8-729-140-84 | | | | £A | |
| C718 | 1-126-935-11 | | 470uF | 20% | 16V | | | • | ID, AEP, UK, G, | . , | 15 1 NO 11 | ** a *m\ |
| C719 | 1-124-907-11 | | 10uF | 20% | 50V | Q305 | 8-729-620-05 | | | | | K, G, IT) |
| C720 | 1-124-907-11 | | 10uF | 20% | 50V | Q305 | 8-729-140-84 | | | | SA. | |
| C721 | 1-124-477-11 | ELECT | 47uF | 20% | 25V | | | (EXCEPT CN | ID, AEP, UK, G, | IT) | | |
| | | | | | | | | | | | | |
| C722 | 1-164-159-11 | | 0. 1uF | | 50V | Q402 | 8-729-900-80 | | | | | |
| C751 | 1-136-165-00 | | 0. 1uF | 5% | 50V | Q403 | 8-729-620-05 | | | | | |
| C752 | 1-136-165-00 | FILM | 0. 1uF | 5% . | 50V | Q501 | 8-729-900-63 | | | 3 | | |
| | | | | | | Q502 | 8-729-118-01 | TRANSISTOR | 2SB1116- | -K | | |
| | | < CONNECTOR > | | | | Q503 | 8-729-118-01 | TRANSISTOR | 2SB1116- | -K | | |
| 6 11.74.0 | | GOVERNMENT DOLD | D MO DOIDD | 400 | | | | / PDGTGMOT | | | | |
| | | CONNECTOR, BOAR | | 10P | | | | < RESISTOR | ₹ > | | | |
| | | SOCKET, CONNECT | | A.D. | | D04.5 | 4 040 400 44 | a i Provi | 222 | | 4 /400 | |
| | | CONNECTOR, BOAR | | 82 | | R317 | 1-249-409-11 | | 220 | 5% | 1/4W | |
| | | SOCKET, CONNECT | | | | R318 | 1-249-409-11 | | 220 | 5% | 1/4W | |
| CNP402 | 2 1-691-769-11 | PLUG (MICRO CON | NECTOR) 7P | | | <u></u> R319 | 1-215-891-11 | | | 5% | 2W | F |
| a | | B | | | | R320 | 1-249-437-11 | | 47K | 5% | 1/4W | |
| | | PLUG, CONNECTOR | | | | R321 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| | | PIN, CONNECTOR | | | | | | | | | | |
| * CNP704 | 4 1-564-337-61 | PIN, CONNECTOR | 3P | | | R322 | 1-249-429-11 | | 10K | 5% | 1/4W | _ |
| | | | | | | R367 | 1-249-409-11 | | 220 | 5% | 1/4W | |
| | | < DIODE > | | | | R368 | 1-249-409-11 | | 220 | 5% | 1/4W | |
| | | | | | | R425 | 1-249-417-11 | | 1K | 5% | 1/4W | F |
| D301 | 8-719-987-63 | DIODE 1N4148M | | | | R426 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W | |
| D302 | 8-719-987-63 | DIODE 1N4148M | | | | | | | | | | |
| D402 | 8-719-987-63 | DIODE 1N4148M | | | | R427 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| D403 | 8-719-987-63 | | | | | R428 | 1-249-426-11 | CARBON | 5. 6K | 5% | 1/4W | |
| D501 | 8-719-987-63 | DIODE 1N4148M | | | | R429 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| | | | | | | R430 | 1-249-438-11 | | 56K | 5% | 1/4W | |
| D502 | 8-719-987-63 | DIODE 1N4148M | | | | R431 | 1-249-418-11 | CARBON | 1. 2K | 5% | 1/4W | F |
| D503 | 8-719-001-91 | DIODE UZL-15M | | | | | | | | | | |
| D504 | 8-719-987-63 | DIODE 1N4148M | | | | R432 | 1-249-418-11 | CARBON | 1. 2K | 5% | 1/4W | F |
| D505 | 8-719-987-63 | DIODE 1N4148M | | | | <u></u> ₹ R433 | 1-215-892-11 | METAL OXII | DE 1K | 5% | 2W | F |
| D506 | 8-719-200-82 | DIODE 11ES2 | | | | R480 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| | | | | | | R481 | 1-249-418-11 | CARBON | 1. 2K | 5% | 1/4W | F |
| D551 | 8-719-987-63 | DIODE 1N4148M | | | | R482 | 1-249-418-11 | | 1. 2K | 5% | 1/4W | |
| D706 | 8-719-200-82 | DIODE 11ES2 | | | | | | | | | | |
| D707 | 8-719-200-82 | | | | | R501 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| D708 | 8-719-200-82 | | | | | R502 | 1-249-441-11 | | 100K | 5% | 1/4W | |
| D709 | 8-719-200-82 | | | | | R503 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| | | | | | | R504 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| | | | | | | | | | • | | | |
| | | | | | |) | omponents iden | | Les compos | | | es |
| | | | | | | - | î or dotted l | 1 | par une ma | - | | ;+ <i>i</i> |
| | | | | | | 1 | ⚠ are critic | | critiques | | | |
| | | | | | | | . Replace onl | | Ne les rem | | | |
| | | | | | | part | number specifi | eu. | portant le | nulle | o speci | 116. |
| | | | | | | | | | | | | |

| Ref. No. | Part No. | Description | | | Re | mark | Ref. No. | Part No. | Description | | | Re | mark |
|--|--------------|--------------------|----------|------|--------------|------|--------------|------------------------------|-----------------|------------------|--------|--------|------------|
| R505 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | | | | < RESISTOR > | | | | |
| R506 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | | , | | | | | | |
| R507 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | | R201 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R508 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | R202 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R509 | 1-249-429-11 | | 10K | 5% | 1/4W | | R203 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| | | | | | | | R204 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | F |
| R510 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | R205 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R511 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | | | | | | | |
| R512 | 1-249-405-11 | | 100 | 5% | 1/4W | | R206 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R513 | 1-249-426-11 | CARBON | 5. 6K | | 1/4W | | | | | | | -, - | |
| | 1-249-441-11 | | 100K | | 1/4W | | | | < VARIABLE RES | SISTOR > | | | |
| R515 | 1-249-426-11 | CARBON | 5. 6K | 5% | 1/4W | | BV201 | 1-241-140-11 | RES, VAR, CARE | RON 10K | (MIC I | LEVEL) | |
| R516 | 1-249-441-11 | | 100K | 5% | 1/4W | | ł | | ******* | | | , | **** |
| R517 | 1-249-426-11 | | 5. 6K | 5% | 1/4W | | | | | | | | |
| | | | 3. UK | 5% | | | 4 | A_4260_240_A | DANEI DOADD (| OMDI ETE | | | |
| R551 ∕∧R701 | 1-249-435-11 | | 33n 1 | 5% | 1/4W 1/2W | r | * | A-4300-249-A | PANEL BOARD, (| | | | |
| ∑17µ1∩1 | 1-212-934-00 | LOSIDEE . | 1 | 3% | 1/211 | ľ | | | ***** | ***** | | | , |
| ♠ R702 | 1-212-934-00 | | 1 | 5% | 1/2W | | | | < CAPACITOR $>$ | | | | |
| ♠ R706 | 1-212-934-00 | | 1 | 5% | 1/2W | | | | | | | | |
| <u></u> 1.07 € £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ | 1-212-934-00 | | 1 | 5% | 1/2W | F | C102 | 1-124-257-00 | | 2. 2uF | | 20% | 50V |
| R708 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | | C103 | 1-162-282-31 | | 100PF | | 10% | 50V |
| R709 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | | C104 | 1-162-282-31 | CERAMIC | 100PF | | 10% | 50V |
| | | | | | | | C105 | 1-124-257-00 | ELECT | 2. 2uF | | 20% | 50V |
| | | < RELAY > | | | | | C106 | 1-124-477-11 | ELECT | 47uF | | 20% | 25V |
| RY301 | 1-515-503-00 | RELAY | | | | | C107 | 1-136-168-00 | FILM | 0. 18u | F | 5% | 50V |
| RY401 | 1-515-765-11 | RELAY | | | | | C108 | 1-136-169-00 | FILM | 0. 22u | F | 5% | 50V |
| | | ****** | ***** | **** | ***** | **** | C111 | 1-126-160-11 | | 1uF | | 20% | 50V |
| | | | | | | | C112 | 1-162-282-31 | | 100PF | | 10% | 50V |
| * | 1-645-247-11 | MIC BOARD | | | | | C152 | 1-124-257-00 | | 2. 2uF | | 20% | 50V |
| | | ***** | | | | | 0150 | 1 100 000 01 | CEDANIC | 10000 | | 1.00 | 5017 |
| | | / CADACITOD > | | | | | C153 | 1-162-282-31 | | 100PF | | 10% | 50V |
| | | < CAPACITOR > | | | | | C154 | 1-162-282-31 | | 100PF | | 10% | 50V |
| 0001 | 1 104 055 00 | PI PAM | 0.0.5 | | 0.00 | E011 | 1 | 1-124-257-00 | | 2. 2uF | | 20% | 50V |
| C201 | 1-124-257-00 | | 2. 2uF | | 20% | 50V | C156 | 1-124-477-11 | | 47uF | | 20% | 25V |
| C202 | 1-162-294-31 | | 0.001 | ur | 10% | 50V | C157 | 1-136-168-00 | FILM | 0. 18u | r | 5% | 50V |
| C203 | 1-162-219-31 | | 68PF | | 5% | 50V | 0150 | 1 100 100 00 | PILM | 0.00 | r | mo. | E017 |
| C204 | 1-162-284-31 | | 150PF | | 10% | 50V | C158 | 1-136-169-00 | | 0. 22u | ľ | 5% | 50V |
| C205 | 1-124-465-00 | ELECT | 0. 47u | lľ | 20% | 50V | C161 | 1-126-160-11 | | 1uF | | 20% | 50V |
| 0000 | 4 404 477 44 | DI DOM | 45 B | | 000 | OFFI | C162 | 1-162-282-31 | | 100PF | | 10% | 50V |
| C206 | 1-124-477-11 | | 47uF | | 20% | 25V | C601 | 1-136-165-00 | | 0. 1uF | | 5% | 50V |
| C207 | 1-124-477-11 | | 47uF | | 20% | 25V | C602 | 1-162-306-11 | CERAMIC | 0. 01u | F | 20% | 16V |
| C434 | 1-162-286-31 | CERAMIC (G. IT) | 220PF | | 10% | 50V | cena | 1-162-306-11 | CEDAMIC | 0.01,, | С | 20% | 1677 |
| C484 | 1 102 200 21 | * / / | 9900E | | 1.00 | EOU | C603 | | | 0. 01u | ľ | 20% | 16V |
| 0404 | 1-162-286-31 | | 220PF | | 10% | 50V | C604 | 1-124-477-11 | | 47uF | | 20% | 25V |
| | | (G, IT) | | | | | C607 | 1-124-477-11 | | 47uF | | 20% | 25V |
| | | < JACK > | | | | | C608 C609 | 1-164-159-11 1-162-306-11 | | 0. 1uF 0. 01u | | 20% | 50V 16V |
| | | | | | | | | | | | | | |
| | | JACK (MIX MIC) | | | | | C703 | 1-162-294-31 | | 0.001 | | 10% | 50V |
| | | SOCKET, CONNEC | | | | | C704 | 1-162-294-31 | | 0.001 | uF | 10% | 50V |
| CNJ401 | 1-695-804-11 | JACK (HEADPHON | ES) | | | | C706 | 1-124-907-11 | ELECT | 10uF | | 20% | 50V |
| | | < IC > | | | | | | | < VIBRTOR > | | | | |
| 10201 | 8-759-634-50 | IC M5218AL | | | | | CF601 | 1-577-358-21 | VIBRATOR, CERA | AMIC (4M | Hz) | | |

mark ⚠ or dotted line with mark. A are critical for safety. Replace only with part number specified.

The components identified by Les composants identifiés par une marque \Lambda sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

PANEL

| Ref. No. | Part No. | Description | | Remar | k R | ef. No. | Part No. | Description | | | Re | emark |
|----------|------------------------------|--------------|--------------------|----------------|-----|---------|---------------|-------------------|------------|----------|---------|---------|
| | | < CONNECTOR | _ : > | | _ | R116 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | F |
| | | | | | | R117 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| * CNJ113 | 1-568-318-11 | PLUG, CONNE | CTOR 6P | | | R118 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| * CNJ114 | 1-568-318-11 | PLUG, CONNE | CTOR 6P | | | R159 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| * CNJ601 | 1-568-830-11 | SOCKET, CON | NECTOR 11P | | | R160 | 1-249-441-11 | | 100K | | 1/4W | |
| | | < DIODE > | | | | R161 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | |
| | | | | | | R163 | 1-249-418-11 | CARBON | 1. 2K | 5% | 1/4W | F |
| D101 | 8-719-987-63 | DIODE 1N4 | 148M | | | R164 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| D151 | 8-719-987-63 | DIODE 1N4 | 148M | | | R165 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | F |
| D601 | 8-719-200-82 | DIODE 11E | S2 | | | R166 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | |
| D602 | 8-719-987-63 | DIODE 1N4 | 148M | | | | | | | | , | |
| D603 | 8-719-987-63 | DIODE 1N4 | 148M | | | R167 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| | | | | | | R168 | 1-247-887-00 | | 220K | | 1/4W | • |
| D605 | 8-719-987-63 | DIODE 1N4 | 148M | | | R600 | 1-249-435-11 | | 33K | 5% | 1/4W | |
| | 8-719-026-64 | | 1260S (ON/STAND | (BY) | | R601 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| | 8-719-026-64 | | 1260S (MUTING - | | | R602 | 1-249-437-11 | | 47K | 5% | 1/4W | |
| | 8-719-026-64 | | 1260S (REAR SPE | | | 11002 | 1 210 101 11 | ornibon. | | 070 | 1/ 1// | |
| | 8-719-026-72 | | 1860A (DYNAMIC | | (r) | R605 | 1-247-903-00 | CARRON | 1M | 5% | 1/4W | |
| 2000 | 0 110 020 12 | DIODE CINE | 1000II (DIMENIO | D1100 01010 | " | R606 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| D610 | 8-719-026-72 | DIODE SML | 1860A (DYNAMIC | BASS SYSTE | 4) | R607 | 1-249-425-11 | | 4. 7K | | 1/4W | F |
| | 8-719-026-72 | | 1860A (DYNAMIC | | | R608 | 1-249-393-11 | | 10 | 5% | 1/4W | |
| | 8-719-987-63 | | 148M | DINCO DIGIL | " | R609 | 1-249-429-11 | | 10K | 5% | 1/4W | 1 |
| | 8-719-987-63 | | 148M | | | 11000 | 1 243 423 11 | OARDON | 1017 | 3/0 | 1/411 | |
| | 8-719-987-63 | | 148M | | | R610 | 1-249-429-11 | CARRON | 10K | 5% | 1/4W | |
| D100 | 0 713 307 00 | DIODE INT. | 1400 | | | R611 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| | | < IC > | | | | R612 | 1-249-422-11 | | 2. 7K | | 1/4W | E |
| | | (10) | | | | R613 | 1-249-424-11 | | 3. 9K | | 1/4W | |
| TC102 | 8-759-634-51 | IC M5218A | р | | | R614 | 1-249-428-11 | | 8. 2K | | 1/4W | |
| | 8-759-163-92 | | 05P9SC405648B | | | 11014 | 1 243 420 11 | OMIDON | 0. ZII | U AJ | 1/ 711 | 1 |
| | 8-749-923-34 | | | | | R615 | 1-249-429-11 | CARRON | 10K | 5% | 1/4W | |
| 10000 | 0 110 020 01 | INOIO DIODE | di 1000MD | | | R616 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| | | < TRANSISTOR | R > | | | | -1-249-413-11 | | 470 | 5% | 1/4W | E |
| | | \ TIMINDIDIO | 11 / | | | R618 | 1-249-429-11 | | 10K | 5% | 1/4W | ľ |
| Q102 | 8-729-202-67 | TRANSISTOR | 2SK246-GR3 | | | R619 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| - | 8-729-620-05 | | 2SC2603-EF | | | 11013 | 1 243 423 11 | CALIDON | TOIL | 370 | 1/411 | |
| - | 8-729-202-67 | | 2SK246-GR3 | | | R621 | 1-249-417-11 | CARRON | 1K | 5% | 1/4W | F |
| • | 8-729-620-05 | | 2SC2603-EF | | | R622 | 1-249-429-11 | | 10K | 5% | 1/4W | Ľ |
| | 8-729-620-05 | | 2SC2603-EF | | 1 | R625 | 1-249-417-11 | | 16K | 5% | 1/4W | r |
| Ø001 | 0 723 020 00 | HUMBIDION | ZBOZOOJ LI | | | R626 | 1-249-414-11 | | 560 | 5% | 1/4W | |
| 0602 | 8-729-620-05 | TDANGICTOD | 2SC2603-EF | | | R627 | | | | | | Г |
| • | 8-729-620-05 | | 2SC2603-EF | | | ROZ1 | 1-249-429-11 | CARDUN | 10K | 5% | 1/4W | |
| | 8-729-119-76 | | | | | Dean | 1 040 400 11 | CADDON | ECV | FΩ | 4 /488 | |
| | | | 2SA1175-HFE | | | R629 | 1-249-438-11 | | 56K | 5% | 1/4W | |
| | 8-729-620-05 | | 2SC2603-EF | | | R630 | 1-249-441-11 | | 100K | | 1/4W | г |
| QUUS | 8-729-620-05 | TUANSISION | 2SC2603-EF | | | R631 | 1-249-417-11 | | 1K | 5% | 1/4W | |
| 0010 | 0 700 000 00 | TOANGTOTOD | DTA10AEC | | | R703 | 1-249-417-11 | | 1K | 5% | 1/4W | F |
| | 8-729-900-63 8-729-900-36 | | DTA124ES | | | R704 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| Antr | 0-729-900-30 | noicicnani | DTC124ES | | | | | < VARIABLE RES | ISTOR > | , | | |
| | | < RESISTOR > | > | | | DV101 | 1-2/1-252-11 | RES, VAR, CARBO | าที่ 1กกษ | /1 DOV | (I EME) | \ |
| R109 | 1-249-417-11 | CARRON | 1K 5% | 1/4W F | | | | RES, VAR, CARBO | | | | |
| | 1-249-441-11 | | 100K 5% | 1/4W 1 | | 111104 | T 7-41 000-11 | ILLO, YAIL, VARDI | NA TOOU | A TOOL | (ւ ռւկՍ | LNOI) |
| | 1-249-432-11 | | 18K 5% | 1/4W | | | | < SWITCH > | | | | |
| | 1-249-418-11 | | 1. 2K 5% | 1/4W F | | | | / DMIIOU / | | | | |
| | 1-249-437-11 | | 1. 2K 5% 47K 5% | 1/4W r 1/4W | | S601 | 1_579_101_11 | SWITCH, KEYBOAI | טעס (פעס | ים עבדי | /MED/ | |
| 1117.7 | 1 240 407 11 | MODILLIO | AIII JA | 1/ 411 | į. | S602 | | SWITCH, KEYBOAR | | | | стем\ |
| R115 | 1-249-427-11 | CARBON | 6.8K 5% | 1/4W F | | | | SWITCH, KEYBOAR | | | | OILLIN) |
| | 101 11 | -2.11.00 U11 | 0. 011 0/0 | T/ ZII L | 1 | 5003 | 1 017 104 11 | OHITOH, MEIDUAL | ויט (מוט ב | 1110 -Z | JuuD) | |

| ef. No. | Part No. | Description | | Re | mark | Ref. No. | Part No. | Description | | | Re | marl |
|--------------|------------------------------|------------------|---------------|---------------|------------|-----------------------|------------------------------|---|----------------------|-------------|--------------|------|
| S604 | | SWITCH, KEYBOAR | • | | | | | < TRANSISTOR | 1 > | | _ | |
| ***** | ****** | ******* | ****** | ****** | **** | 0401 | 0 700 140 04 | TDANGICTOD | 0001041 | DARAR | | |
| | A-4360-254-A | POWER AMPLIFIER | ROARD | COMDI ETE | | Q401 Q451 | 8-729-140-84 8-729-140-84 | | 2SC1841- 2SC1841- | | | |
| | A 4000 204 A | TOWER AMELITIES | , שנווט, | (CND, AE | b IIK) | 6431 | 0 723 140 04 | HOTOTON | 2301041 | IAIAL | n. | |
| | A-4360-259-A | POWER AMPLIFIER | BOARD. | | | | | < RESISTOR > | , | | | |
| | | POWER AMPLIFIER | | , | -,, | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
| | | (| EXCEPT (| CND, AEP, UK, | G, IT) | R401 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| | | ****** | ****** | ****** | | R402 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| | | | | | | R403 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F |
| | - | < CAPACITOR > | | | | R404 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| | | | | | | R405 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| C401 | 1-124-257-00 | | 2. 2uF | 20% | 50V | D. 400 | | a.mno.u | 4011 | 5 0. | 4 / 4177 | |
| C402 | 1-162-286-31 | | 220PF | 10% | 50V | R406 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| C403 C404 | 1-162-282-31 1-124-477-11 | | 100PF 47uF | 10% 20% | 50V | R407 | 1-249-429-11 | | 10K | 5% 5% | 1/4W | |
| C404 | 1-124-477-11 | | 47ur 47uF | 20% | 25V 50V | R408 <u>∧</u> R409 | 1-249-429-11 1-212-881-11 | | 10K 100 | 5% | 1/4W 1/4W | С |
| 0403 | 1 124 310 11 | LLLOI | 4741 | 20% | JU Y | /1\R410 | 1-217-156-00 | | 0. 22 | 3/0 | 1/411 | ľ |
| C406 | 1-124-572-11 | ELECT | 100uF | 20% | 63V | 7,5,11410 | 1 217 100 00 | METRE I BILL | 0. 22 | | | |
| C407 | 1-124-791-11 | | 1. 0uF | 20% | 100V | R411 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| C408 | 1-124-916-11 | ELECT | 22uF | 20% | 63V | R412 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| C409 | 1-136-165-00 | FILM | 0. 1uF | 5% | 50V | R413 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| C410 | 1-136-163-00 | FILM | 0.068uI | F 5% | 50V | R414 | 1-249-421-11 | CARBON | 2. 2K | 5% | 1/4W | |
| | | | | | | R415 | 1-249-421-11 | CARBON | 2. 2K | 5% | 1/4W | F |
| C411 | 1-136-163-00 | | 0.068ul | | 50V | | | | | | | _ |
| C431 | 1-162-306-11 | | 0. 01uF | 20% | 16V | R416 | 1-249-421-11 | | 2. 2K | | 1/4W | |
| C432 | 1-162-306-11 | (G, IT) | 0 01E | 200 | 1077 | R417 | 1-249-421-11 | | 2. 2K | | 1/4W | |
| U43Z | 1-102-300-11 | (G, IT) | 0. 01uF | 20% | 16V | R418 R419 | 1-249-397-11 1-249-397-11 | | 22 22 | 5% 5% | 1/4W 1/4W | |
| C433 | 1-162-306-11 | | 0. 01uF | 20% | 16V | R419 | 1-249-397-11 | | 22 | 5% | 1/4W | |
| 0100 | 1 102 300 11 | (G, IT) | 0. 01ui | 2070 | 101 | 11420 | 1 243 337 11 | OAIDON | LL | J //p | 1/411 | 1 |
| C451 | 1-124-257-00 | | 2. 2uF | 20% | 50V | R421 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| | | | | | | R422 | 1-249-429-11 | | 10K | 5% | 1/4W | • |
| C452 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | R423 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| C453 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | R424 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| C454 | 1-124-477-11 | ELECT | 47uF | 20% | 25V | R451 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| C455 | 1-124-910-11 | ELECT | 47uF | 20% | 50V | | | | | | | |
| C456 | 1-124-572-11 | ELECT | 100uF | 20% | 63V | R452 | 1-249-438-11 | | 56K | 5% | 1/4W | |
| 0.455 | 4 404 504 44 | ni nam | | | 40077 | R453 | 1-249-415-11 | | 680 | 5% | 1/4W | F |
| C457 | 1-124-791-11 | | 1. 0uF | 20% | 100V | R454 | 1-249-438-11 | | 56K | 5% | 1/4W | |
| C460 C461 | 1-136-163-00 | | 0. 068uF | | 50V | | 1-249-429-11 | | 10K | 5% 5% | 1/4W | |
| 0401 | 1-136-163-00 | LILM | u. uoour | 3% | 50V | R456 | 1-249-429-11 | CARDUN | 10K | 5% | 1/4W | |
| | | < DIODE > | | | | R457 | 1-249-429-11 | CARRON | 10K | 5% | 1/4W | |
| | | | | | | R458 | 1-249-429-11 | | 10K | 5% | 1/4W | |
| D401 | 8-719-987-63 | DIODE 1N4148M | | | | | 1-212-881-11 | | 100 | 5% | 1/4W | F |
| D451 | 8-719-987-63 | | | | | <u> </u> | 1-217-156-00 | | 0. 22 | - | , | - |
| | | | | | | R461 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| | | < IC > | | | | | | | | | | |
| 10404 | 0.040.004.00 | T.O. OMY 100/100 | • | | | R462 | 1-249-431-11 | | 15K | 5% | 1/4W | |
| 10401 | 8-749-921-68 | IC STK-4231MK | Z | | | R463 | 1-249-441-11 | | 100K | | 1/4W | ۳. |
| | | / COII > | | | | R468 | 1-249-397-11 | | 22 | 5% | 1/4W | |
| | | < COIT > | | | | R469 R470 | 1-249-397-11 | | 22 | 5% 5% | 1/4W | |
| L401 | 1-420-872-00 | COIL, AIR CORE | | | | N4/U | 1-249-397-11 | OARDUN | 22 | 5% | 1/4W | ľ |
| L451 | | COIL, AIR CORE | | | | R471 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| | | , | | | | | ****** | | | | | |

The components identified by Les composants identifiés mark ⚠ or dotted line with mark. 🛕 are critical for safety. Replace only with part number specified.

par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER

PRE AMPLIFIER

| Ref. No. | Part No. | Description | | Re | mark | Ref. No. | Part | No. | Descri | otion | | | Re | emark |
|--------------------------------|------------------------------|---|---------------------------|------------|--------------|------------------------------|----------------|--|------------------|------------------|-----------------------------------|----------|-------------------|-------------------|
| * | | POWER BOARD (C POWER BOARD (E ********* | | | IT) | C304 C351 C352 C353 | 1-124 1-162 | 1-257-00 1-257-00 2-282-31 1-234-00 | ELECT CERAMIC | 2 | 2. 2u 2. 2u 100P | F F | 20% 20% 10% | 50\ 50\ 50\ |
| * | | HOLDER, FUSE (| | | | C354 | | 1-257-00 1-257-00 | | | 22uF 2. 2u | | 20% 20% | 167 507 |
| | | / CADACITOD > | | | | | | | < CONNI | ECTOR | > | | | |
| | | < CAPACITOR > | | | | * CNJ10 | 3 1-568 | 8-830-11 | SOCKET, | CON | NECTOR 11 | P | | |
| <u>↑</u> C707 <u>↑</u> C723 | 1-161-744-00 1-161-744-00 | | 0. 01uF 0. 01uF IT) | | 400V 400V | * CNJ10 | 5 1-573 | 3-299-11 | CONNEC | TOR, I | NECTOR 9P BOARD TO BOARD TO | | | |
| | | < JACK > | | | | | | | < DIODE | E > | | | | |
| | | INLET, AC (~ . | , , , | T CND) | | D303 D304 | | 1-987-63 1-987-63 | | 1N41 1N41 | | | | |
| | | < DIODE > | | | | | | | < IC > | | | | | |
| D704 D705 | 8-719-987-63 8-719-987-63 | | | | | | | -634-51 -634-51 | | 5218AF 5218AF | | | | |
| | | < FUSE > | | | | | | | < TRANS | SISTOR | ₹ > | | | |
| | | FUSE (T2. 5A) (A FUSE (T5A) (EX | | UK, G, I' | Γ) | Q101 Q151 | | -141-30 -141-30 | | | 2SC3623/ 2SC3623/ | | | |
| | | FUSE, GLASS TU | | D III O | TW) | Q301 | | -141-30 | | | 2SC3623 | | | |
| <u>17</u> 1. 107 | 1-332-200-00 | FUSE (T2. 5A) (I | | P, UN, G, | . 11) | Q302 Q306 | | -141-30 -900-63 | | | 2SC36237 DTA124ES | | | |
| | | < TRANSISTOR > | | | | Q351 | 8-729 | -141-30 | TRANSIS | TOR | 2SC3623 | A-LK | | |
| Q603 | 8-729-620-05 | TRANSISTOR 2 | SC2603-EF | | | Q352 Q607 | | -141-30 -119-76 | | | 2SC3623/ 2SA1175- | | | |
| | | < RELAY > | | | | | | | < RESIS | TOR > | > | | | |
| <u>↑</u> RY701 | 1-515-720-11 | RELAY | | | | R101 | 1_240 | -421-11 | CADDON | | 2. 2K | ΕO | 1/4W | r |
| | | < SWITCH > | | | | R102 | | -433-11 | | | 2. ZK 22K | 5% | 1/4W | ľ |
| A 0701 | 1 570 675 11 | CONTROLL DOWNER Y | COLUMN OF STILL | . | | R103 | | -404-00 | | | 82 | 5% | 1/4W | |
| ₹2101 | 1-0/2-0/0-11 | SWITCH, POWER V (VOLTAGE SELECT G, IT) | | | P, UK, | R104 R105 | | -425-11 -425-11 | | | 4. 7K 4. 7K | | 1/4W 1/4W | |
| ****** | ****** | ***** | ****** | ***** | **** | R106 | 1-249 | -425-11 | CARBON | | 4. 7K | 5% | 1/4W | F |
| | 1 1000 050 1 | DDE AMDITETED I | DOLDD GOLDLE | mr. | | R107 | | -425-11 | | | 4. 7K | | 1/4W | F |
| k | A-436U-25U-A | PRE AMPLIFIER I | | | | R108 R119 | | -441 - 11 -417 - 11 | | | 100K | | 1/4W | С |
| | | | | | | R151 | | -421-11 | | | 1K 2. 2K | 5% 5% | 1/4W 1/4W | |
| | | < CAPACITOR > | | | | | | | | | | | | |
| C101 | 1_19/-957 00 | CI ECT | 9 9 ₆₋ E | 3DW | E017 | R152 | | -433-11 | | | 22K | 5% | 1/4W | |
| | 1-124-257-00 1-124-234-00 | | 2. 2uF | 20% | 50V | R153 | | -404-00 | | | 82 | 5% | 1/4W | Р |
| | 1-124-257-00 | | 22uF 2. 2uF | 20% 20% | 16V 50V | R154 R155 | | -425-11 | | | 4. 7K | | 1/4W | |
| | 1-124-234-00 | | z. zur 22uF | 20% | 16V | R155 R156 | | -425-11 -425-11 | | | 4. 7K | | 1/4W | |
| | 1-124-257-00 | | 2. 2uF | 20% | 50V | ULUU | 1 449 | -425-11 | MIUDANO | | 4. 7K | JA | 1/4W | Γ |
| | | | | - • | | R157 | 1-249 | -425-11 | CARBON | | 4. 7K | 5% | 1/4W | F |
| | 1-162-282-31 | | 100PF | 10% | 50V | R158 | 1-249 | -441-11 | CARBON | | 100K | 5% | 1/4W | |
| C303 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | R169 | 1-249 | -417-11 | CARBON | | 1K | 5% | 1/4W | F |

The components identified by Les composants identifiés

par une marque ⚠ sont

critiques pour la sécurité.

portant le numéro spécifié.

Ne les remplacer que par une pièce

mark ⚠ or dotted line with

mark. \Lambda are critical for

safety. Replace only with

part number specified.

PRE AMPLIFIER REAR AMPLIFIER SENSOR

| Ref. No. | Part No. | Description | | R | emark | Ref. No. | Part No. | Description | | | Re | mark |
|----------|---------------|------------------|------------------|---------------|--------|----------|--------------|---|--------|----------|--------|------|
| R301 | 1-249-421-11 | CARRON | 2. 2K | 5% 1/4W | F | C360 | 1-136-165-00 | FILM | 0. 1uF | <i>!</i> | 5% | 50V |
| R302 | 1-249-433-11 | | 22K | 5% 1/4W | | C361 | 1-136-165-00 | | 0. 1uF | | 5% | 50V |
| R303 | 1-249-410-11 | | 270 | 5% 1/4W | | C362 | 1-124-915-11 | | 10uF | | 20% | 63V |
| R304 | 1-249-437-11 | | 47K | 5% 1/4W | | . 0302 | 1 124 515 11 | LDLOI | Ioui | | 2070 | 001 |
| | | | 15K | 5% 1/4W | | | | < CONNECTOR > | | | | |
| R305 | 1-249-431-11 | CARDUN | 131/ | 3% 1/4W | | | | COMMECTOR / | | | | |
| R306 | 1-249-437-11 | | 47K | 5% 1/4W | | | | CONNECTOR, BOAF | | | | |
| R307 | 1-249-421-11 | CARBON | 2. 2K | 5% 1/4W | F | | | CONNECTOR, BOAF | | OARD | 8P | |
| R308 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | | * CNP501 | 1-564-337-51 | PIN, CONNECTOR | 3P | | | |
| R323 | 1-249-441-11 | CARBON | 100K | 5% 1/4W | | | | | | | | |
| R324 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | | | | < DIODE > | | | | |
| R351 | 1-249-421-11 | CARBON | 2. 2K | 5% 1/4W | F | D507 | 8-719-987-63 | DIODE 1N4148N | ſ. | | | |
| R352 | 1-249-433-11 | | 22K | 5% 1/4W | | | | | | | | |
| R353 | 1-249-410-11 | | 270 | 5% 1/4W | F | | | < IC > | | | | |
| R354 | 1-249-437-11 | | 47K | 5% 1/4W | | | | | | | | |
| R355 | 1-249-431-11 | | 15K | 5% 1/4W | | 10302 | 8-759-502-32 | IC SI18752N | | | | |
| | 1 210 101 11 | | | | | | 8-759-502-32 | | | | | |
| R356 | 1-249-437-11 | CARBON | 47K | 5% 1/4W | | | | | | | | |
| R357 | 1-249-421-11 | CARBON | 2. 2K | 5% 1/4W | F | | | < RESISTOR > | | | | |
| R358 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | | | | | | | | |
| R620 | 1-249-441-11 | CARBON | 100K | 5% 1/4W | | R309 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R623 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | | R310 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| | | | | | | R311 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R624 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | | R312 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| ****** | ***** | ****** | ***** | ***** | ***** | R313 | 1-249-428-11 | CARBON | 8. 2K | 5% | 1/4W | F |
| * | A-//360-255-A | REAR AMPLIFIER | ROARD | COMPLETE | | R314 | 1-247-883-00 | CARRON | 150K | 5% | 1/4W | |
| | 11 4000 200 H | MEANC AND BALLER | DOMED, | (CND, AE | D IIK) | R315 | 1-249-397-11 | | 22 | 5% | 1/4W | F |
| * | A-4360-260-A | REAR AMPLIFIER | ROARD | | | R316 | 1-249-397-11 | | 22 | 5% | 1/4W | |
| * | | REAR AMPLIFIER | | | u, 11/ | R359 | 1-247-887-00 | | 220K | | 1/4W | • |
| • | n 4000 200 n | | , | CND, AEP, UK, | C IT) | R360 | 1-249-437-11 | | 47K | 5% | 1/4W | |
| | | ******* | | | 0, 11/ | 11000 | | ombon. | | 010 | 2/ 211 | |
| | | | | | | R361 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| | | < CAPACITOR > | | | | R362 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| | | | | | | R363 | 1-249-428-11 | CARBON | 8. 2K | 5% | 1/4W | F |
| C305 | 1-124-257-00 | ELECT | 2. 2uF | 20% | 50V | R364 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W | |
| C306 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | R365 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| C307 | 1-124-910-11 | ELECT | 47uF | 20% | 50V | | | | | | | |
| C308 | 1-162-282-31 | | 100PF | | 50V | R366 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| | | (EXCEPT G, IT) | | | | R518 | 1-249-421-11 | CARBON | 2. 2K | 5% | 1/4W | F |
| C308 | 1-162-286-31 | | 220PF | 10% | 50V | R519 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| 0000 | 1 100 000 01 | (G, IT) | | 20.0 | | | | ****** | | | | **** |
| C309 | 1-126-163-11 | FIFCT | 4. 7uF | 20% | 50V | * | 1-645-969-11 | SENSOR BOARD | | | | |
| C310 | 1-126-165-11 | | 4. 7ur 0. 1uF | | 50V | * | 1 040 707 11 | 3EN3UR DUARD | | | | |
| | 1-136-165-00 | | 0. 1ur 0. 1uF | | 50V | | | * | | | | |
| | | | | | | | | / CADACITOD \ | | | | |
| C312 | 1-124-915-11 | | 10uF | 20% | 63V | | | < CAPACITOR > | | | | |
| C355 | 1-124-257-00 | CLEU1 | 2. 2uF | 20% | 50V | C512 | 1-164-159-11 | CERAMIC | 0. 1uF | • | | 50V |
| C356 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | | | | | | | |
| C357 | 1-124-910-11 | | 47uF | 20% | 50V | | | < IC > | | | | |
| C358 | 1-162-282-31 | | 100PF | | 50V | | | 7.5 | | | | |
| | _ 102 202 01 | (EXCEPT G, IT) | 25011 | 10/0 | 501 | 10503 | 8-759-947-34 | IC LM35DZ | | | | |
| C358 | 1-162-286-31 | | 220PF | 10% | 50V | | | ****** | ***** | **** | ****** | **** |
| 2000 | _ 102 200 01 | (G, IT) | | 10/0 | 301 | | | | | | | |
| C359 | 1-126-163-11 | | 4. 7uF | 20% | 50V | | | | | | | |
| 0000 | _ 120 100 11 | 22001 | A. rui | 200 | 501 | ı | | | | | | |

| Ref. No. | Part No. | Description | | Remark |
|--|--|---|---------------|----------------|
| * | 1-645-250-11 | VOL BOARD | | |
| < CAPACITOR > | | | | |
| | 1-162-306-11 1-126-157-11 | | | % 16V % 16V |
| | | < CONNECTOR > | | |
| CNJ110 CNJ111 | 1-568-317-11 1-568-317-11 | SOCKET, CONNECTOR SOCKET, CONNECTOR SOCKET, CONNECTOR PLUG, CONNECTOR 3P | 6P 6P | |
| | | < DIODE > | | |
| D614 | 8-719-200-82 | DIODE 11ES2 | | |
| | | < IC > | | |
| IC602 | 8-759-820-62 | IC LB1639 | | |
| < VARIABLE RESISTOR > | | | | |
| RV103 1-223-175-11 RES, VAR, CARBON 10K/100KX4 (VOLUME) ************************************ | | | | |
| MISCELLANEOUS ********* | | | | |
| 11 17 51 M501 ▲T701 | 1-590-576-11 1-590-241-11 1-541-953-11 | WIRE, FLAT TYPE (11 WIRE, FLAT TYPE (11 WIRE, FLAT TYPE (9 MOTOR, DC FAN TRANSFORMER, POWER | CORE) | |
| ⚠T701 1-423-546-11 TRANSFORMER, POWER (EXCEPT CND, AEP, UK, | | | | |
| ⚠ T701 ⚠ T701 | 1-423-549-11 1-423-699-11 | G, IT) TRANSFORMER, POWER TRANSFORMER, POWER | (UK) (CND) | |
| ********************** | | | | |
| ******** | | | | |
| HARDWARE LIST ************** | | | | |
| #2 #3 #4 | 7-682-548-04 7-682-547-09 7-685-871-01 | SCREW +BVTP 3X10 TY SCREW +BVTT 3X8 (S) SCREW +BVTT 3X6 (S) SCREW +BVTT 3X6 (S) SCREW +BVTP 3X16 TY | | |
| | | SCREW +BVTP 3X8 TYP SCREW +BVTP 3X10 TY | | |

The components identified by Les composants identifiés mark ⚠ or dotted line with mark. A are critical for safety. Replace only with part number specified.

par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.